Product Brief

MegaRAID® SAS 9261-8i

Eight-Port 6Gb/s PCI Express SATA+SAS RAID Controller

Protect Business Critical Data with the Industry's Most Trusted SATA+SAS RAID Controllers

KEY FEATURES

- Eight internal 6Gb/s SATA+SAS ports
- Two Mini-SAS internal connectors (SFF-8087)
  – Horizontal mount
- LSISAS2108 6Gb/s RAID-on-Chip
  – 800MHz PowerPC®
- 512MB 800MHz DDRII cache memory
- Optional battery backup module
- RAID Levels 0, 1, 5 and 6
- RAID Spans 10, 50 and 60

KEY ADVANTAGES

- Superior Performance
  – Maximum Reads: 2,875MB/s
  – Maximum Writes: 1,800MB/s
- PCI Express® 2.0 provides faster signaling for high-bandwidth applications
- Support for 3Gb/s and 6Gb/s SATA and SAS hard drives
- SafeStore™ Encryption Services for more secure data protection

TYPICAL APPLICATIONS

- Video-On-Demand
- Video-Surveillance
- Video Creation + Editing
- Medical Imaging
- High-Performance Computing
- Digital Content Archive and VTL
- Storage Appliance
- File, Web, Database, and Email Servers

Next-Generation SATA+SAS RAID

LSI™ MegaRAID SATA+SAS controllers provide a new level of reliability, availability, and performance to businesses that are facing storage challenges driven by unprecedented data growth. With data transfer rates of up to 6Gb/s per port, the MegaRAID SAS 9261-8i brings users new features and improved performance, while continuing to support all the features of the previous 3Gb/s SATA+SAS generation. This MegaRAID value line controller, ideal for inside-the-box connectivity, employs the latest in RAID-on-Chip technology, complies with the PCI Express 2.0 specification, and provides additional data security using LSI SafeStore™ Encryption Services.

6Gb/s SAS Performance Advantage

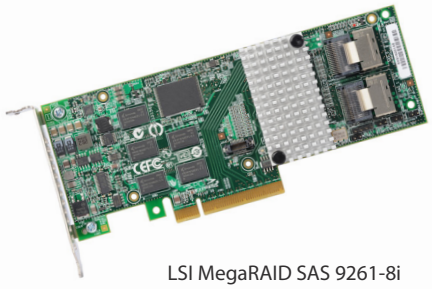
With data transfer rates of up to 6Gb/s per port, the MegaRAID SAS 9261-8i bring users new features and improved performance, while continuing to support all the features of the previous 3Gb/s SATA+SAS generation. 6Gb/s SAS is designed for backward compatibility with 3Gb/s SAS as well as with 6Gb/s and 3Gb/s SATA hard drives. Regardless of the drive speed, 6Gb/s MegaRAID controllers will deliver significant performance improvements in both read and write applications as compared to their 3Gb/s predecessors.

LSI SafeStore Encryption Services

LSI is pleased to introduce SafeStore Encryption Services, which include Instant Secure Erase for self-encrypting drives (SEDs). This technology represents a significant step forward in securing a drive's data from any unauthorized access or modification resulting from theft, loss, or repurposing of drives. Instant secure provides instant data protection via cryptographic erase. Whether the drive is 73GB or 1TB, this feature will delete the existing encryption key and re-generate a new data encryption key in less than a second, enabling drives to be returned, retired, sold or reused securely.

Intuitive RAID Management Utility

The MegaRAID Management Suite™ provides the essential software tools to efficiently manage MegaRAID products, whether deployed in an enterprise or small business. LSI offers a collection of applications and tools including a pre-boot setup utility and a full spectrum of online RAID management utilities. This suite of applications allow administrators to adjust SAS topology views from the system host, controller and disk enclosure down to the logical and physical drive level. Extending to enterprise deployments, these tools scale to easily configure, monitor and manage RAID volumes locally or over the LAN network.



LSI MegaRAID SAS 9261-8i

MegaRAID SAS 9261-8i	
Solution Provided	Eight-port internal SATA+SAS solution for high-density servers and workstations using up to 32 SATA and/or SAS drives
Physical Dimensions	MD2 Low profile (6.6" X 2.536")
Internal Connectors	Two Mini-SAS SFF8087 4i internal connectors (horizontal)
Device Support	Up to 32 SAS and/or SATA hard drives
Host Bus Type	x8 lane PCI Express 2.0 Compliant
Data Transfer Rates	Up to 6Gb/s per port
I/O Processor/SAS Controller	LSISAS2108 RAID-on-Chip (ROC)
Cache Memory	512MB 800MHz DDR II SDRAM
Battery Backup Unit	LSIiBBU07, an intelligent battery backup module option that directly connects to the adapter
Key RAID Data Protection Features	• RAID levels 0, 1, 5, and 6 • RAID spans 10, 50 and 60 • Online Capacity Expansion (OCE) • Online RAID Level Migration (RLM) • Auto resume after loss of system power during array rebuild or reconstruction (RLM) • Single controller Multipathing (failover) • Load Balancing • Configurable stripe size up to 1MB • Fast initialization for quick array setup • Check Consistency for background data integrity • SafeStore Encryption Services – Instant Secure Erase • SSD Support with SSD Guard™ • Patrol read for media scanning and repairing • 64 logical drive support • Up to 64TB LUN support • DDF compliant Configuration on Disk (COD) • S.M.A.R.T support • Global and dedicated Hot Spare with Revertible Hot Spare support – Automatic rebuild – Enclosure affinity – Emergency SATA hot spare for SAS arrays • Enclosure management – SES (inband) – SGPIO (sideband)
Operating Temperature	Maximum ambient: 60°C (44.5°C w/iBBU)
Operating Voltage	+3.3V
Warranty	3 years, free advanced technical support, advanced replacement option
Regulatory Certifications	EN55022, EN55024, EN60950, EN 61000-3-2, EN 61000-3-3; FCC Class A, Class B; UL1950; UL; CSA C22.2; VCCI; RRL for MIC; BSMI; C-tick
RAID Management	MegaRAID Management Suite - MegaRAID Storage Manager™ - MegaCLI (command-line interface) - WebBIOS
OS Support	Extensive support includes Microsoft® Windows® Vista/2008/Server 2003/2000/XP, Linux®, Solaris™ (x86), Netware®, FreeBSD®, VMware® and more. Visit the LSI download Center for the most complete list of supported operating systems: lsi.com/channel/support

For more information and sales office locations, please visit the LSI web sites at:

lsi.com **lsi.com/channel**

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